



**HOSES FOR
WATER, SEWAGE, WASTE
& RAW MATERIALS**

ABOUT US

The **SCHAUENBURG HOSE TECHNOLOGY GROUP (SHT)** is one of the world's biggest and leading plastic hose manufacturers, producing high-performance hoses from virtually every thermoplastic. With production, distribution and trading facilities in Germany, France, Italy, Romania, China and the US, SHT-GROUP serves customers in 74 countries around the globe.

Starting the business in 1953, SHT-GROUP can draw upon more than 70 years of experience in hose production technology. Like no other company, SHT-GROUP collates a unique level of skill and expertise, offering customers an incomparably broad product range. From garden hoses to high-end hose assemblies, customers are supplied with the full range from one single source, which makes SHT-GROUP a highly qualified partner for distributors, wholesalers, retailers, MROs and OEMs equally.

In addition to a wide range of high-quality standard products and services, SHT-GROUP offers tailor-made solutions, which perfectly support customers in mastering specific challenges.

More information about the
SCHAUENBURG HOSE TECHNOLOGY GROUP:

- 
microbe resistant
- 
food grade
- 
hydrolysis resistant
- 
grounding wire
- 
permanently antistatic
- 
electrically conductive
- 
high temperature
- 
flame retardant
- 
abrasion resistant
- 
very smooth inside



WASTE WATER & SEWAGE SYSTEMS

PVC suction hoses with rigid helix reinforcement. External profile corrugated or smooth according to the application requirements.

APDatec 142



Applications
liquid manure spreading, waste water, agricultural technology, sewage treatment plants, agriculture

Features
very good flexibility, crush-resistant, very high vacuum resistance, high pressure resistance, with external abrasion protection spiral, very smooth inside, corrugated outside

Construction
PVC / soft PVC, blue, plastic spiral / hard PVC

Temperature
-25°C up to 60°C

VIDASPIR MG



Applications
waste water, waste management, agricultural technology, irrigation, agriculture

Features
medium weight, good flexibility, high pressure resistance, high vacuum resistance, very smooth inside, smooth outside, hydrolysis- & microbe resistance, good ozone & UV-resistance, weather proof, rot proof

Construction
PVC / soft PVC, grey / window grey (similar RAL 7040), plastic spiral / hard PVC

Temperature
-25°C up to 50°C

VIDASPIR S



Applications
waste water, agriculture, pump technology, suction vehicles & dredgers, vacuum technology

Features
heavy-duty, good flexibility, high pressure resistance, high vacuum resistance, very smooth inside, smooth outside, good ozone & UV resistance, hydrolysis & microbe resistance, weather proof, rot proof

Construction
PVC / soft PVC, grey / window grey (similar RAL 7040), plastic spiral / hard PVC

Temperature
-25°C up to 50°C

FLEXACIER® STD FOOD



Applications
sewage suction, feed conveying, grain conveying, milk- & cheese production, pharmaceutical production

Features
medium weight, good flexibility, very high pressure resistance, very high vacuum resistance, crush-resistant, smooth inside, smooth outside

Construction
PVC / soft PVC, transparent, galvanized spring steel wire

Temperature
-10°C up to 65°C

SPECIALTIES

Products specially designed for easy handling by their lightness and flexibility.

GENESIS® ToiVac N

Straight lengths with welded cuffs at both ends, with collar and rope.



GENESIS® ToiVac N



Applications
mobile toilets, sewage suction, waste disposal vehicles, waste water, sewage treatment plants, vacuum pump, water drain

Features
can be driven over, crush-resistant, good tensile strength, very high vacuum resistance, very good chemical resistance, weather proof, good ozone- & UV-resistance, hydrolysis- & microbe resistance, rot proof

Construction
PE, yellow / saffron yellow (similar RAL 1017), plastic spiral / PE

Temperature
-40°C up to 60°C

Options
straight lengths with welded cuffs and a rope

SPEARFLEX NT



Applications
suction and discharge, cleaning and emptying, compatible with industrial liquids including sludge and mineral oils

Features
extremely flexible made with low temp resistance PVC/NBR compound, with a unique spiral profile allowing superior flexibility and easy sliding on rough surfaces with less impact on the wall structure

Construction
PVC / PVC / NBR, silver grey, plastic spiral / hard PVC

Temperature
-40°C up to 50°C

Options
with antistatic wire for grounding

DOUBLEFLEX® SERIES

Patented flexible hoses based on the original principle of a double spiral, comprising an internal spiral, used as the main support of the structure of the hose, and a second external spiral ensuring bending without kinking and an additional resistance to vacuum. The patented double spiral, provides complete protection of the hose wall against punctures and friction. The exterior surface is self-sliding, making it easier to drag on the ground, even when loaded.



DOUBLEFLEX® PUMP



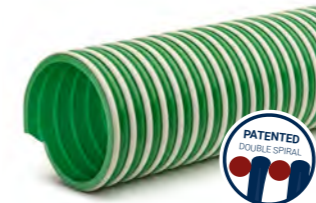
Applications
designed for heavy duty suction and delivery of liquids in industrial, agriculture applications and tanker trucks

Features
double spiral construction for increased vacuum resistance, wall protection and flexibility with reduced bending radius

Construction
PVC / soft PVC, blue grey, plastic spiral external and internal grey / hard PVC

Temperature
-30°C up to 50°C

DOUBLEFLEX® PUMP V



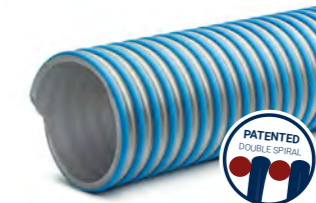
Applications
light weight yet suitable for medium duty suction and delivery of liquids in agriculture applications and tanker trucks

Features
double spiral construction for increased vacuum resistance, wall protection and flexibility with reduced bending radius, UV resistant

Construction
PVC / soft PVC, green, plastic spiral external and internal white / hard PVC

Temperature
-30°C up to 50°C

DOUBLEFLEX® POLAR



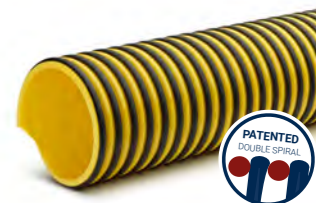
Applications
flexible hose even at extreme low temperatures thanks to the NBR formulation for medium duty suction and delivery of liquids

Features
double spiral construction for increased vacuum resistance, wall protection and flexibility with reduced bending radius, excellent cold flex resistance

Construction
PVC / soft PVC, silver grey, plastic spiral external blue and internal white / hard PVC

Temperature
-40°C up to 50°C

DOUBLEFLEX® EVAC



Applications
standard duty suction and delivery hose, specially conceived for the black water applications, with an increased resistance to industrial oils and hydrocarbons

Features
double spiral construction for increased vacuum resistance, wall protection and flexibility with reduced bending radius, excellent resistance to hydrocarbons

Construction
PVC / soft PVC/NBR, yellow, plastic spiral external black and internal white / hard PVC

Temperature
-30°C up to 50°C



WATER SUPPLY, EVACUATION & RECYCLING

Textile reinforced hoses for water supply, evacuation, wash down and water recycling.



GreenX OneFlat Premium



Applications
waste water, construction machines, pump technology, cable protection, construction drying

Features
light weight, crush-resistant, can be driven over, very high pressure resistance, smooth inside, hydrolysis & microbe resistance

Construction
EPDM, white

Temperature
-20°C up to 65°C

GreenX OneFlat L/M



Applications
waste water, agricultural technology, construction machines, construction drying, irrigation

Features
medium weight, crush-resistant, can be driven over, high pressure resistance, smooth inside, smooth outside

Construction
PVC, blue

Temperature
-20°C up to 65°C

REFUSE MANAGEMENT & RECYCLING

Highly abrasion resistant hoses with a polyurethane wall or liner, for the transport of waste in all stages of the recycling process from collection to treatment.

SMARTFLEX® 1.0



Applications
wood dust extraction, sawing & milling, grass extraction leaf extraction, conveying of abrasive media

Features
flame-retardant, permanently antistatic (R < 10⁹ Ohm), hydrolysis- & microbe resistance, good flexibility, very smooth inside, corrugated outside

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall Thickness
1.0 mm

SMARTFLEX® 1.4



Applications
wood dust extraction, sawing & milling, grass extraction, leaf extraction, conveying of abrasive media

Features
flame-retardant, permanently antistatic (R < 10⁹ Ohm), hydrolysis- & microbe resistance, good flexibility, very smooth inside, corrugated outside

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall Thickness
1.4 mm

SMARTFLEX® 2.0



Applications
conveying of abrasive media, roof graveling, vacuum conveyor fish farming, gravel conveying

Features
flame-retardant, permanently antistatic (R < 10⁹ Ohm), hydrolysis- & microbe resistance, very smooth inside, corrugated outside

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall Thickness
2.0 mm

SMARTFLEX® 2.5



Applications
extraction and transport of abrasive, granular media, for roof graveling, industrial cleaning, power plant cleaning, compressors

Features
flame-retardant, permanently antistatic (R < 10⁹ Ohm), hydrolysis- & microbe resistance, very smooth inside, corrugated outside

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall Thickness
2.5 mm

SMARTFLEX® SMT Premium



Applications
waste water, waste disposal vehicles, cleaning, irrigation, construction machines

Features
excellent flexibility, good tensile strength, crush-resistant, can be driven over, very high pressure resistance, good ozone- & UV-resistance, hydrolysis- & microbe resistance, weather proof, rot proof, phthalate-free

Construction
PVC / soft PVC, grey, SMT knitting

Temperature
-15°C up to 65°C

Options
equipped with GEKA couplings

SMARTFLEX® SMT Comfort



Applications
waste water, waste disposal vehicles, cleaning, irrigation, construction machines

Features
excellent flexibility, good tensile strength, crush-resistant, can be driven over, very high pressure resistance, good ozone- & UV-resistance, hydrolysis- & microbe resistance, weather proof, rot proof, phthalate-free

Construction
PVC / soft PVC, grey, SMT knitting

Temperature
-15°C up to 65°C

Options
equipped with GEKA couplings

PleXus AT



Applications
waste water, irrigation, agriculture cleaning

Features
good flexibility, smooth outside, smooth inside, weather proof, good ozone- & UV-resistance, hydrolysis- & microbe resistance, phthalate-free

Construction
PVC / soft PVC, yellow, knitted antitorsion

Temperature
-20°C up to 65°C

Options
equipped with GEKA couplings

PleXus Classic



Applications
irrigation, waste water, agricultural technology, construction machines waste disposal vehicles

Features
good flexibility, smooth outside, smooth inside, weather proof, good ozone- & UV-resistance, hydrolysis- & microbe resistance, phthalate-free

Construction
PVC / soft PVC, yellow / zinc yellow (similar RAL 1018), cross braid

Temperature
-20°C up to 65°C

Options
equipped with GEKA couplings

SMOOTHFLEX X-TRA PU MHR



Applications
extraction systems, granulate conveying, grinding machines powder conveying & -coating dosing

Features
standard weight, good flexibility, good abrasion resistance, very smooth inside, corrugated outside

Construction
TPU / Polyether-Polyurethane, uncolored, plastic spiral / hard PVC

Temperature
-30°C up to 80°C

PU Wall thickness
1.0 - 1.2 mm

Options
with antistatic wire for grounding

APDatec 248 ProSlide PU



Applications
roof graveling, conveying of rubble gravel conveying, sandblasting conveying of abrasive media

Features
excellent abrasion resistance, high vacuum resistance, crush-resistant, very smooth inside, corrugated outside, with highly abrasion-resistant polyurethane inner layer, smooth, to ensure very low pressure losses, good mechanical strength

Construction
yellow, plastic spiral / hard PVC

Temperature
-20°C up to 60°C

PU Wall thickness
2.5 mm

APDatec 120



Applications
pellet transport, granulate conveying, extraction systems, conveying of abrasive media, powder conveying & -coating

Features
good flexibility, very smooth inside, corrugated outside, very good chemical resistance, weather proof, with copper wire for grounding

Construction
soft PVC, uncolored, plastic spiral / hard PVC

Temperature
-5°C up to 60°C

PU Wall thickness
0.8 - 1.2 mm



STREET CLEANING & MAINTENANCE

A wide range of hoses to match any requirement, in terms of abrasion resistance, flexibility and weight. Available for street cleaner machinery, mowers or industrial vacuum cleaners.



VACUFLEX® K1H PU



Applications
cleaning, industrial vacuum cleaners, engine construction, medical devices, cable protection

Features
light weight, good flexibility, good tensile strength, crush-resistant, ultimate elongation, good abrasion resistance, free of halogen & softeners, phthalate-free

Construction
TPU / Polyether-Polyurethane, black / jet black (similar RAL 9005), steel wire / spring steel wire / coated / PU

Temperature
-40°C up to 90°C, short term up to 125°C

SMOOTHFLEX PU MHR



Applications
extraction systems, grinding machines, blowing in insulation material, granulate conveying powder conveying & -coating

Features
light weight, excellent flexibility, good abrasion resistance, very smooth inside, corrugated outside

Construction
TPU / Polyether-Polyurethane, uncolored, plastic spiral / hard PVC

Temperature
-30°C up to 80°C

PU Wall thickness
0.4 – 0.8 mm

Options
with antistatic wire for grounding

GENESIS® Commercial



Applications
waste management, industrial vacuum cleaners, waste disposal vehicles, cable protection

Features
crush-resistant, can be driven over, good tensile strength, high vacuum resistance, very high pressure resistance, good chemical resistance, weather proof, hydrolysis- & microbe resistance, smooth inside

Construction
PE, grey, plastic spiral / PE

Temperature
-40°C up to 60°C

VACUFLEX® VAT-Elastic



Applications
industrial vacuum cleaners, vacuum cleaner, cleaning, dust extraction, construction drying

Features
good flexibility, crush-resistant, good tensile strength, good chemical resistance, good ozone- & UV-resistance, hydrolysis- & microbe resistance, rot proof, weather proof, excellent mechanical properties, especially for higher tensile forces, ultra light & extremely flexible, good mechanical strength

Construction
PVC / soft PVC, black, steel wire / spring steel wire / coated / PVC

Temperature
-10°C up to 70°C, short term up to 90°C

FLEXADUX® P7 M Street



Applications
waste disposal vehicles, sweepers municipal services, street cleaning conveying of rubble

Features
good flexibility, very good low-temperature flexibility, very good abrasion resistance, hydrolysis- & microbe resistance, good oil & petrol resistance

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall thickness
1.4 mm

SMARTFLEX® 0.4



Applications
wood dust extraction, dust extraction, grass extraction, leaf extraction, furniture production

Features
flame-retardant, permanently antistatic (R < 10⁹ Ohm), hydrolysis- & microbe resistance, excellent flexibility, good oil & petrol resistance

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall thickness
0.4 mm

SMARTFLEX® 0.6



Applications
wood dust extraction, dust extraction, grass extraction, leaf extraction, furniture production

Features
flame-retardant, permanently antistatic (R < 10⁹ Ohm), hydrolysis- & microbe resistance, very good flexibility, good oil & petrol resistance

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall thickness
0.6 mm

SMARTFLEX® 0.7



Applications
wood dust extraction, sawing & milling, grass extraction leaf extraction, conveying of abrasive media

Features
flame-retardant, permanently antistatic (R < 10⁹ Ohm), hydrolysis- & microbe resistance, good flexibility, good oil & petrol resistance

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

PU Wall thickness
0.7 mm



AIR EXTRACTION & POLLUTION CONTROL

Extraction hoses for air pollution control systems, dust collection as well as air and fume extraction.

Clip Hoses: Mechanically interlocked, spirally reinforced ducting, especially designed for suction and transport of fumes and gases even under extremely high temperature conditions.

FLEXADUX® Hyp CL PRO



Applications
suction of hot or cold fumes, gases or dust in all fields of industry, particularly suitable for the automotive industry thanks to its abrasion protection profile which protects the cars from scratches

Features
very good flexibility, very good temperature resistance, very good chemical resistance, with external abrasion protection spiral, compressible

Construction
coated fabrics / Hypalon® coated polyester fabric, black / jet black (similar RAL 9005), clip profile / single-layer

Temperature
-40°C up to 175°C

FLEXADUX® Silicone CL



Applications
exhaust gas extraction, extraction systems, extractions arms, steam extraction, venting

Features
very good flexibility, very good temperature resistance, with external abrasion protection spiral, flame-retardant

Construction
coated fabrics / silicone coated glass fabric, grey / silver grey (similar RAL 7001), clip profile / single-layer

Temperature
-60°C up to 300°C

FLEXADUX® Aramid CL



Applications
exhaust gas extraction, extraction systems, high temperature applications, venting, extractions arms

Features
light weight, very good flexibility, very good temperature resistance, excellent axial compressibility, good mechanical strength, excellent resistance to high temperatures & fumes

Construction
coated fabrics / silicone coated aramid fabric, green / leaf green (similar RAL 6002), clip profile / with external abrasion protection profile

Temperature
-60°C up to 260°C

FLEXADUX® HT 1100 CL



Applications
exhaust gas extraction, extraction systems, high temperature applications, automotive engineering automation technology

Features
good flexibility, excellent temperature resistance, compressible, with external abrasion protection spiral, flame-retardant

Construction
coated fabrics / special coated high temperature fabric, reinforced with woven stainless steel wire, grey / silver grey (similar RAL 7001), clip profile / multi-layer

Temperature
-50°C up to 1.100°C

Optional
also available FLEXADUX®405 and FLEXADUX®650

FLEXADUX® P2 A 1000



Applications
extractions arms, fume extraction welding gas extraction, air & cooling technology, ventilation

Features
excellent flexibility, good temperature resistance, good low-temperature flexibility, excellent axial compressibility, particularly small bending radius ($r < d$)

Construction
coated fabrics / PVC coated polyester fabric, grey / silver grey (similar RAL 7001), steel wire / spring steel wire / not coated / copper plated

Temperature
-30°C up to 80°C, short term up to 100°C

FLEXADUX® P2 HZ



Applications
air & cooling technology, solvent vapor extraction, exhaust gas extraction, steam extraction, extraction systems

Features
light weight, very good flexibility, very good low-temperature flexibility, very good chemical resistance, good oil & petrol resistance

Construction
TPE/E, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 140°C

FLEXADUX® P2 SP



Applications
exhaust gas extraction, extractions arms, steam extraction, fume extraction, venting

Features
good ozone- & UV-resistance, hydrolysis- & microbe resistance, rot proof, weather proof, very good temperature resistance

Construction
coated fabrics / TPE coated polyester fabric, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 150°C

FLEXADUX® P2 PP



Applications
extraction systems, automotive engineering, vehicle construction air conditioning & HVAC, ventilation

Features
very good flexibility, good temperature resistance, good chemical resistance, good ozone- & UV-resistance, hydrolysis- & microbe resistance, free of halogen & softeners

Construction
PP, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

Temperature
-20°C up to 100°C

FLEXADUX® P2 SP-TPR



Applications
extraction systems, automotive engineering, vehicle construction, air conditioning & HVAC, ventilation

Features
very good flexibility, very good temperature resistance, good compressibility, good chemical resistance, good ozone- & UV-resistance, weather proof, hydrolysis- & microbe resistance

Construction
TPE/E, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 135°C, short term up to 150°C

FLEXADUX® P-G-EX 1



Applications
exhaust gas extraction, extraction systems, vehicle construction venting, high temperature applications

Features
very good temperature resistance, very good flexibility, can be driven over, crush-resistant, good oil & petrol resistance, very good chemical resistance

Construction
coated fabrics / TPE coated polyester fabric, black / jet black (similar RAL 9005), plastic spiral / PA

Temperature
-40°C up to 150°C, short term up to 170°C

FLEXADUX® NEO II



Applications
extraction systems, vehicle construction, steam extraction, granule drying, automation technology & robotics

Features
light weight, excellent flexibility, very good temperature resistance, particularly small bending radius ($r < d$), good chemical resistance

Construction
coated fabrics / Neoprene® coated glass fabric, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

Temperature
-35°C up to 135°C, short term up to 150°C

FLEXADUX® SIL II



Applications
extraction systems, vehicle construction, steam extraction, granule drying, automation technology & robotics

Features
light weight, excellent flexibility, very good temperature resistance, particularly small bending radius ($r < d$), good chemical resistance

Construction
coated fabrics / silicone coated glass fabric, brown / red brown (similar RAL 8012), steel wire / spring steel wire / not coated / copper plated

Temperature
-70°C up to 250°C, short term up to 300°C



GENERATING ENERGY FROM WASTE MATERIAL & BIOGAS

Hoses for the transfer of waste to convert to electricity / produce biogas and usable fertilizer or to circulate or balance the air inside membrane systems.

APDatec 144



Applications
liquid manure, fertilizer, silo vehicles, agricultural technology, agriculture

Features
very good flexibility, very high vacuum resistance, smooth inside, corrugated outside, very good chemical resistance, good ozone- & UV-resistance, weather proof

Construction
PVC / PVC / Buna, grey, plastic spiral / hard PVC

Temperature
-40°C up to 60°C

FLEXADUX® P2 HL



Applications
paint mist extraction, solvent vapor extraction, air conditioning & HVAC venting, extraction systems

Features
good flexibility, very good low-temperature flexibility, very good chemical resistance, flame-retardant, permanently antistatic (R ≤ 10³ Ohm)

Construction
coated fabrics / PVC coated polyester fabric, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 80°C

SERIE 6 PUR M1



Applications
steam extraction, fume extraction venting, vehicle construction, welding gas extraction

Features
light weight, very good temperature resistance, very good flexibility, good compressibility, good abrasion resistance

Construction
coated fabrics / PU coated polyester fabric, grey / anthracite grey (similar RAL 7016), steel wire / spring steel wire / not coated / galvanized

Temperature
-40°C up to 180°C

FLEXADUX® P7 M PU EL



Applications
extraction systems, conveying of abrasive media, conveying technology, granulate conveying, powder conveying & -coating

Features
very good abrasion resistance, very smooth inside, corrugated outside, good oil & petrol resistance, hydrolysis- & microbe resistance, electrically conductive (R ≤ 10³ Ohm)

Construction
TPU / Polyether-Polyurethane, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C



CONNECTORS & ACCESSORIES

A wide selection of suitable connection and joining solutions for the proposed hoses. Clamps, integrated fittings, injection-molded or cast socket systems, to suit individual and customized special solutions in addition to the common standards.



BridgeXX bridge clamps



Hinge bolt clamps



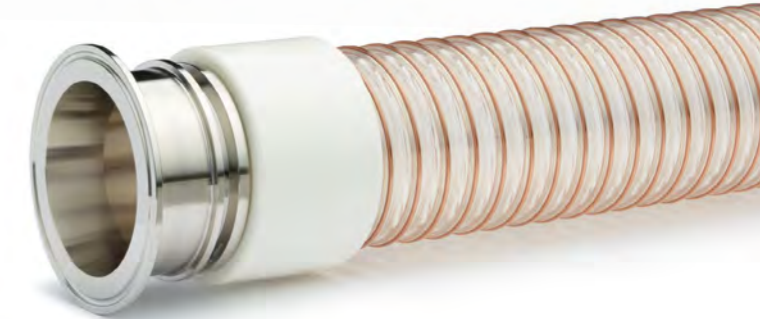
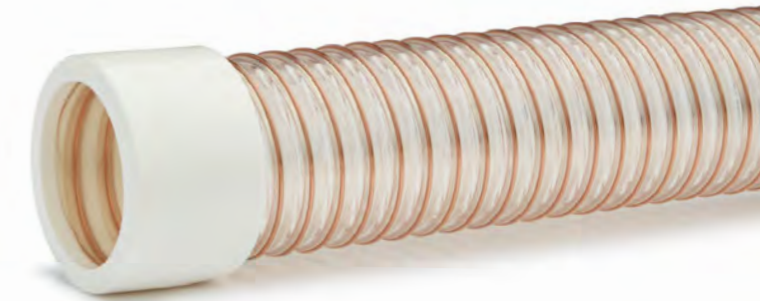
Cuffs

IBC Container Connections



Sealing inserts for clamping

For easy assembly of couplings.
Easy and quick assembly with safety clamps.



Injection molded cuffs



Casting cuffs





 **SCHAUENBURG**
HOSE TECHNOLOGY GROUP

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